

AMENDMENT TO THE CLAIMS

- A/ 1. (Currently amended) A data storage device for storing and accessing data, the storage device comprising:
- a motor;
- at least one movable medium coupled to the motor and capable of being moved by the motor and thereby generating a turbulent airflow; and
- at least one internal surface comprising at least two grooves, each groove having a groove axis oriented substantially perpendicular to a mean airflow direction and separated from the other groove axis in a direction substantially parallel to the mean airflow direction so as to reduce interaction between the internal surface and a turbulent airflow generated by the medium.
2. (original) The data storage device of claim 1 wherein the internal surface comprises at least three evenly spaced grooves.
3. (original) The data storage device of claim 1 wherein the grooves are V-shaped.
4. (original) The data storage device of claim 1 wherein the grooves are curved.
5. (original) The data storage device of claim 1 wherein the grooves are separated by a planar surface.
6. (original) The data storage device of claim 1 wherein the grooves are separated by a curved surface.
7. (original) The data storage device of claim 1 wherein the internal surface forms part of an E-block assembly.

8. (original) The data storage device of claim 1 wherein the internal surface forms part of a suspension.

9. (original) The data storage device of claim 1 wherein the internal surface forms part of an air dam.

10. (original) The data storage device of claim 1 wherein the internal surface forms part of an air flow regulator.

11. (Currently amended) A surface for a component in a data storage device, the surface comprising:

a first groove having a groove axis that is substantially perpendicular to a direction of expected mean air flow;
and

a second groove proximate the first groove and having a groove axis that is substantially perpendicular to the expected mean air flow and that is separated from the first groove axis in a direction that is substantially parallel to the expected mean air flow such that the first and second grooves cooperate to reduce interaction between vortices in the air flow and the surface.

12. (original) The surface of claim 11 wherein the first groove and the second groove are V-shaped.

13. (original) The surface of claim 11 wherein the first groove and the second groove are curved.

14. (original) The surface of claim 11 wherein the surface forms part of an E-block assembly.

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15. (original) The surface of claim 11 wherein the surface forms part of a suspension.

16. (original) The surface of claim 11 wherein the first groove borders the second groove.

17. (original) The surface of claim 11 wherein the first groove is separated from the second groove by a planar surface.

18. (original) The surface of claim 11 wherein the first groove is separated from the second groove by a curved surface.

19. (currently amended) A data storage device disc drive for storing and accessing data, the data storage device disc drive comprising:

a moving medium that generates an airflow having eddies in the disc drive; and
excitation reduction means defining a surface in the disc drive for reducing the excitation of the surface by causing eddies in the airflow to be moved away from the surface.

20. (currently amended) The data storage device disc drive of claim 19 wherein the excitation reduction means comprises grooves on the surface.

21. (currently amended) The data storage device disc drive of claim 20 wherein the grooves are V-shaped.

22. (currently amended) The data storage device disc drive of claim 20 wherein the grooves are curved.

23. (currently amended) The data storage device disc drive of
claim 20 wherein the grooves are evenly spaced.
